SCENARIO BASED ITEMS ON MATERIALS

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Item 1

Moses has just completed building his house in Bulonde, a semi-arid region with limited municipal water supply. He relies heavily on rainwater harvesting and occasional water deliveries. His household includes five family members, and he plans to use the stored water for drinking, cooking, gardening, and emergency backup. He wants a durable, cost-effective tank that suits Bulonde's climate and land space constraints. He has contacted you for advice

Task

As a chemistry learner

(a) Explain

(I) the category of the materials

(II) the suitability of the material

(b) Advise him the choice of the material he should go for

Item 2

Moses runs a small fruit supply business in Kajjansi, delivering fresh fruits to local markets and vendors. Recently, he has been facing challenges with fruit spoilage during transportation due to poor packaging. Some of his clients have complained about bruised fruits, especially delicate ones like tomatoes and passion fruits.

He has contacted you for advice

Task

As a chemistry learner

(a) Explain ;

(I) the category of the materials

(II) The suitability of the material

(b) Advise him the choice of the material he should go for

Item 3

Moses is the head chef at "Flavors of Zion," a high-end restaurant known for its gourmet dishes. However, the kitchen staff has been struggling with food sticking to pans, leading to longer cleaning times and inconsistent cooking results. The restaurant owner has tasked Moses with finding a durable, high-performance solution to improve efficiency.

He has contacted you for advice

Task

As a chemistry learner

(a) Explain;

(I) the category of the materials

(II) The suitability of the material

(b) Advise him the choice of the material he should go for

Item 4

Moses operates a small fish farming business in Kajjansi near Lake Victoria. Recently, his traditional hemp fishing nets have been deteriorating quickly due to constant exposure to water, leading to frequent repairs and losses of fish stock. He needs a more suitable

material he should purchase to improve his catch efficiency and reduce maintenance costs.

He has contacted you for advise

Task

As a chemistry learner

(a) Explain;

(I) the category of the materials

(II) The suitability of the material

(b) Advise him the choice of the material he should go for

Item 5

Moses is constructing a metal fabrication workshop in Kajjansi Town Council. After consulting with building experts, he learns that traditional iron sheets would be too heavy for his structure and prone to rust from welding fumes. An engineer recommends an alternative roofing material for their unique advantages in industrial applications.

He has contacted you for advice

Task

As a chemistry learner

(a) Explain

(I) the category of the materials

(II) The suitability of the material

(b) Advise him the choice of the material he should go for

END